

ILLEGIB

Approved For Release 2000/08/23 : CIA-RDP78T05439A000300280005-7

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~~TOP SECRET CHINA~~

DECLASSIFICATION REVIEW by NIMA/DOD 3/17/00

Route

TCS - 1488, 64-KH
IB - 116/64
10 March 1964
Copy # _____

25X1A

MEMORANDUM FOR: [REDACTED] Chief, Collection and Guidance Staff

ATTENTION : [REDACTED] CBI

THROUGH : Chief, Requirements Branch, Reconnaissance Group, CGS

FROM : Chief, CIA/PID (NPIC)

SUBJECT : Vietnam and Laos Road Study

REFERENCES : (1) RDI Requirement No. C-DI-61,092
(2) CIA/PID Project No. C-198-64

1. This memorandum is in response to the above referenced requirement which requests a study of Routes 8 and 8A in North Vietnam and Laos. To be noted in this study are any newly constructed unnumbered routes, trafficability, and information as to width, surface, landslide areas, bottlenecks, bridge gaps, and stages of road construction.

2. Route 8 and 8A are described in detail in the following text. The enclosed annotated maps (CIA/PID/IB-P-428, 434, 435/64) give details of surface conditions, route alignment, fords, ferries, etc. Ferry crossings usually have only one ferry boat with a maximum capacity of two or three trucks.

3. Route 8 is a single-lane natural surface road that is probably impassable during the rainy season. The coastal plain on which this road begins is deltaic in origin and poorly drained. Consequently, the roadbed is graded relatively high to the surrounding terrain with narrow shoulders. As the road enters the Chaine Annamitique Mountains it turns in a southwesterly direction. The steep slopes and sharp-crested hills of these mountains make road construction difficult, resulting in heavy grades and sharp curves, which restrict vehicular traffic. The metamorphic rocks of this area produce a very deep soil, probably clay. These soils support a heavy, dense growth of evergreen forest which should offer more stability to the soils on slopes where slide-hill cuts are located; thus decreasing the possibility of landslides in this area. Westward from its junction with Route 8A at Lok See (IC 113/104 10E), Route 8 becomes a single-lane ungraded road with practically no maintenance work noted. Approximately 45 kilometers westward from Lok See all maintenance on Route 8 ends. From this point a mass of trails begin their trek toward the Hoang River.

S-12249

~~TOP SECRET CHINA~~

GROUP 1
Excluded from automatic
downgrading and
declassification

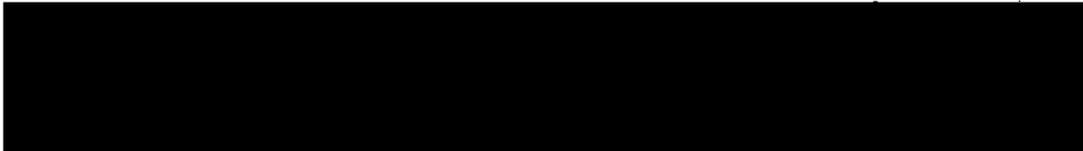
TOP SECRET

SUBJECT: Vietnam and Laos Road Study

Numerous single-lane unimproved branch roads lead from Route 8 in the mountainous area of North Vietnam (see enclosed annotated map). These roads generally follow stream valleys with fords occurring frequently.

4. Route 8A, 30 kilometers in length, is a single-lane road with slight improvements noted in certain areas. The road extends southward from Route 8 at Lak Seo (18 11N/104 58E). It traverses undulating country and passes through open forests, with occasional clearings and rice fields. The road appears to have a natural surface, which probably becomes impassable during the rainy season. The roadbed ranges in width from 10 to [REDACTED] with width up to [REDACTED] in areas where passing is permissible. Numerous fords occur along the route and only in the southern half of the route are any bridges noted. The southern half is definitely the most improved section.

5. All bridges noted on Route 8 and 8A are bottlenecks because of their narrow widths. Numerous sharp curves, and steep grades in the mountains restrict speeds of vehicular traffic. Fords become a difficult problem during the rainy season because of numerous washouts, which necessitate frequent maintenance.

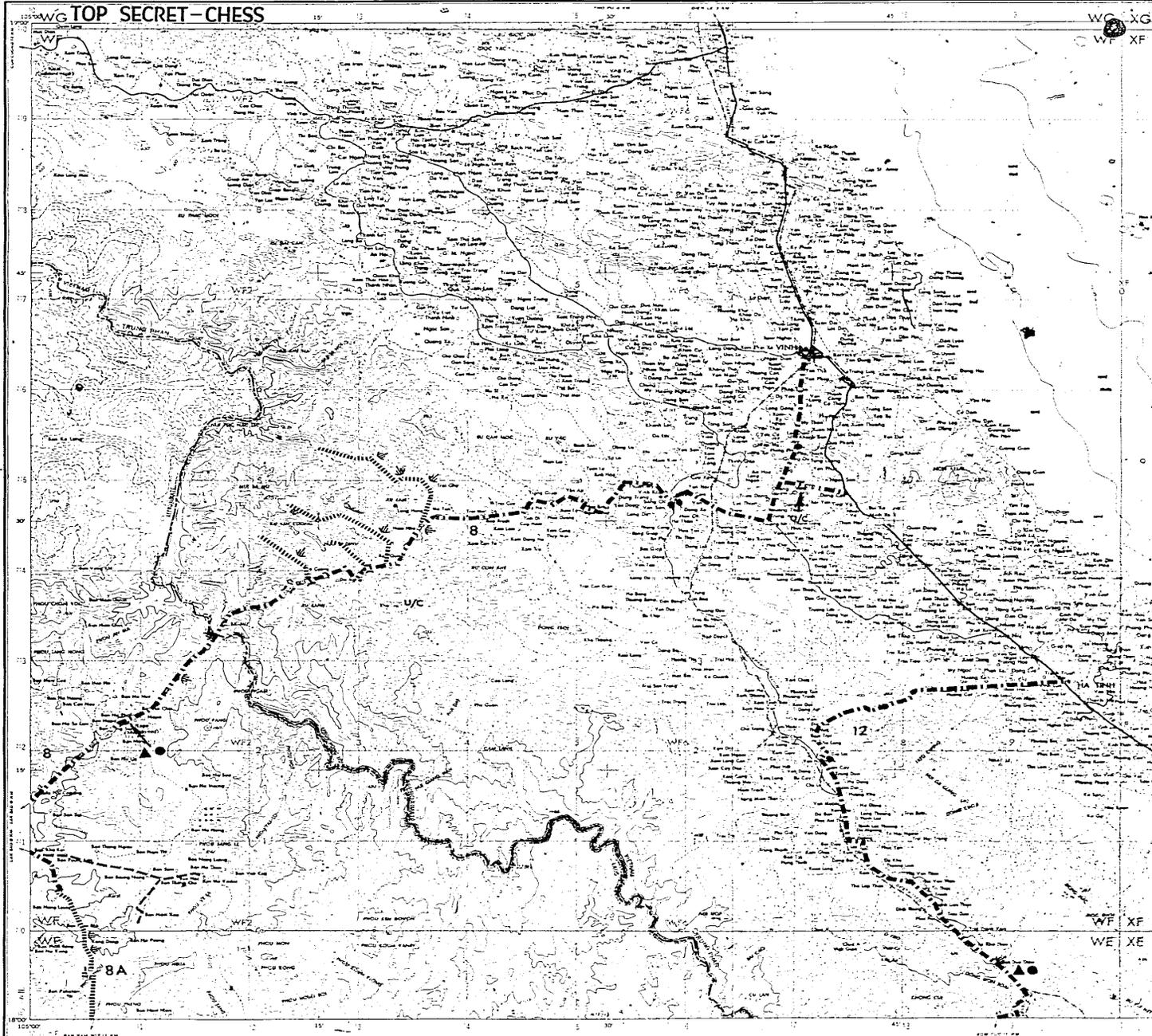


7. The photo analysis on this project was performed by [REDACTED] 25X1A
[REDACTED] who may be contacted on extension 3746 should questions arise regarding this project. This requirement is considered incomplete.

25X1A
[REDACTED]

Enclosures:

3 Annotated Maps
(CIA/PID/IB-P-126, 454, 455/44)



L509
Edition 2-AMS (first rev)
Prepared by Army Map
Agency, D. C. (1964)
Revised by Army Map
Agency, D. C. (1965)
This map is a reproduction of the
original map and is not to be
used for navigation purposes.
It is intended for reference
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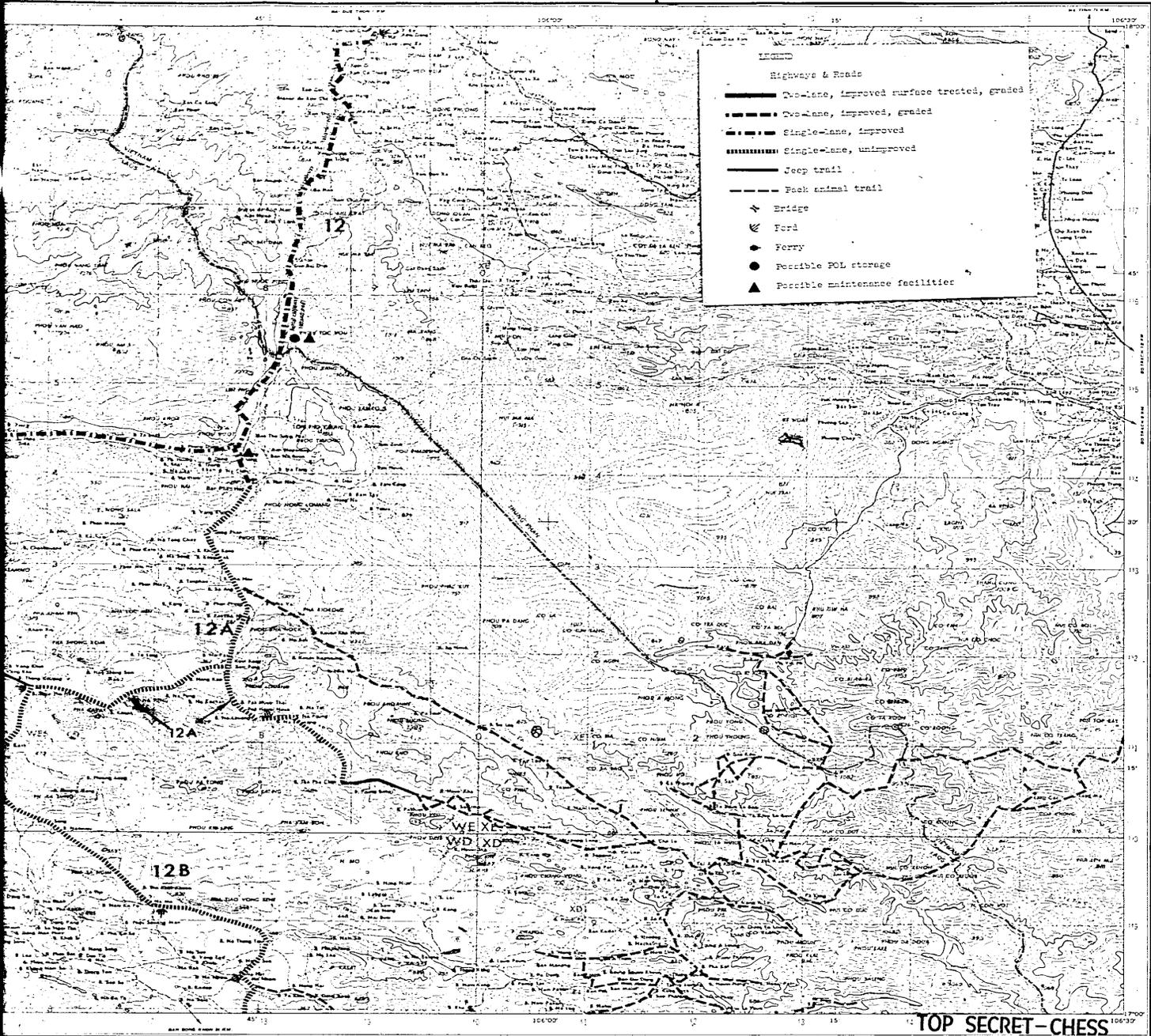
CIA/PID/IS-P-435/64

LEGEND

SAIGON	HAIPHONG	NAM DINH	Ha Dong
...

Scale 1:250,000

CONTOUR INTERVAL 100 METERS
TRANSVERSE MERCATOR PROJECTION



TOP SECRET-CHES

Scale 1:250,000

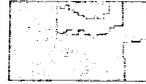
CONTOUR INTERVAL 100 METERS WITH SUPPLEMENTARY CONTOURS AT 50 METER INTERVALS
RELIEF PARTIALLY SHOWN BY FORM LINES

TRANSVERSE MERCATOR PROJECTION

LOCATION DIAGRAM FOR NE 48-11



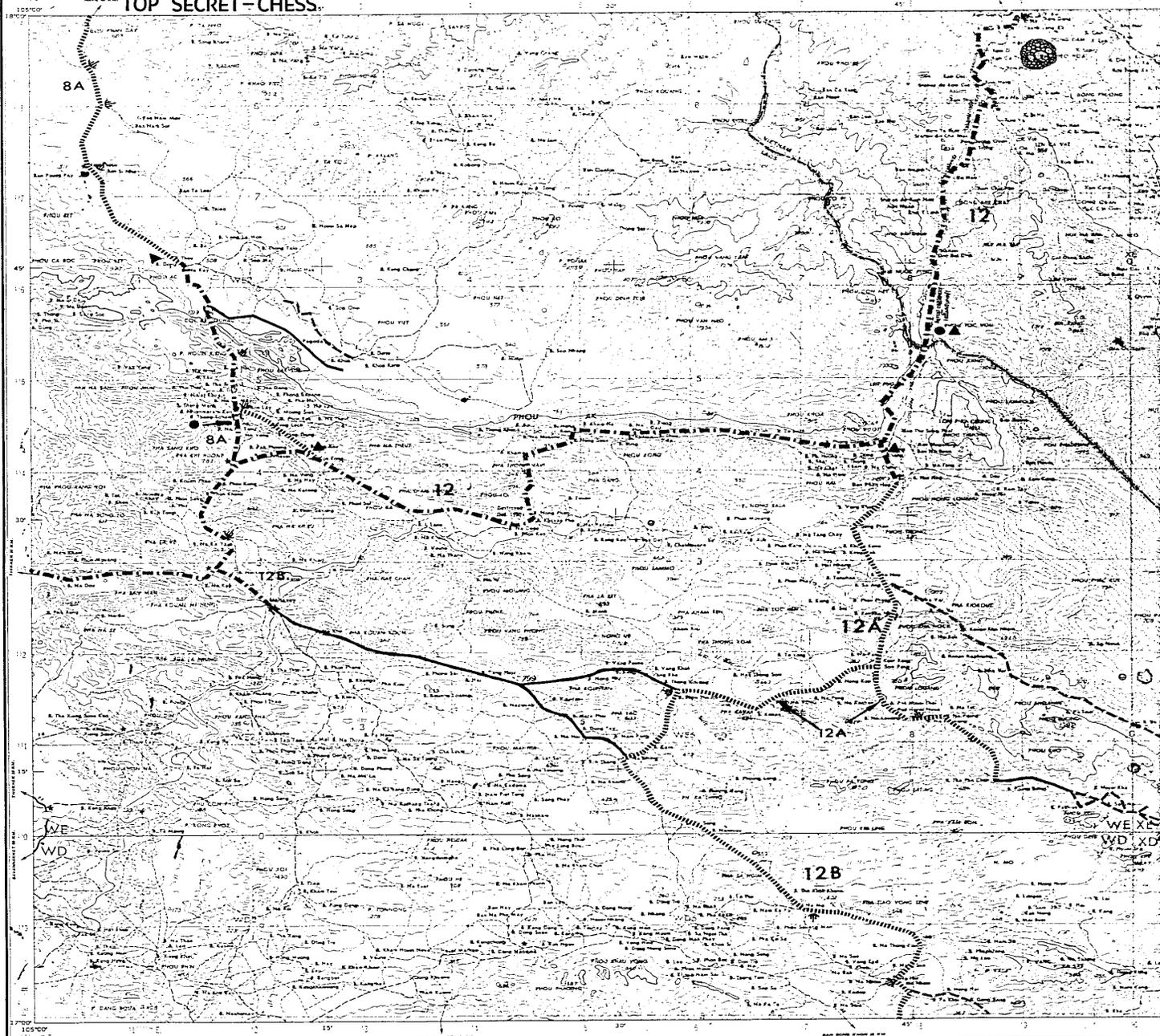
RELIABILITY DIAGRAM



PRINTED BY ARMY MAP SERVICE CORPS OF ENGINEERS

BADON, VIETNAM; LAOS

TOP SECRET-CHES



L509
Edition 4-AMS (first)
Prepared by the Army
Map Center, D. C. G.
1:250,000, AMS, 19
revised by DTIC (1961).
The results of vegetation information is un-
determined. Names for symbols and codes are limited where
information is not available. Information is not available
revisions. Revised from data dated 1951, AM, 1952.

Scale: 1:250,000

Projection: Transverse Mercator

LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
(Symbol)	Province boundary	(Symbol)	Contour interval 100 meters
(Symbol)	Major road	(Symbol)	Supplementary contour interval 50 meters
(Symbol)	Minor road	(Symbol)	Water
(Symbol)	Highway	(Symbol)	Stream
(Symbol)	Canal	(Symbol)	River
(Symbol)	Water	(Symbol)	Lake
(Symbol)	Stream	(Symbol)	Swamp
(Symbol)	River	(Symbol)	Marsh
(Symbol)	Lake	(Symbol)	Forest
(Symbol)	Swamp	(Symbol)	Cultivated land
(Symbol)	Marsh	(Symbol)	Barren land
(Symbol)	Forest	(Symbol)	Settlement
(Symbol)	Cultivated land	(Symbol)	Village
(Symbol)	Barren land	(Symbol)	Town
(Symbol)	Settlement	(Symbol)	Religious building
(Symbol)	Village	(Symbol)	Public building
(Symbol)	Town	(Symbol)	Government building
(Symbol)	Religious building	(Symbol)	Other building
(Symbol)	Public building	(Symbol)	Other building
(Symbol)	Government building	(Symbol)	Other building
(Symbol)	Other building	(Symbol)	Other building

Scale: 1:250,000

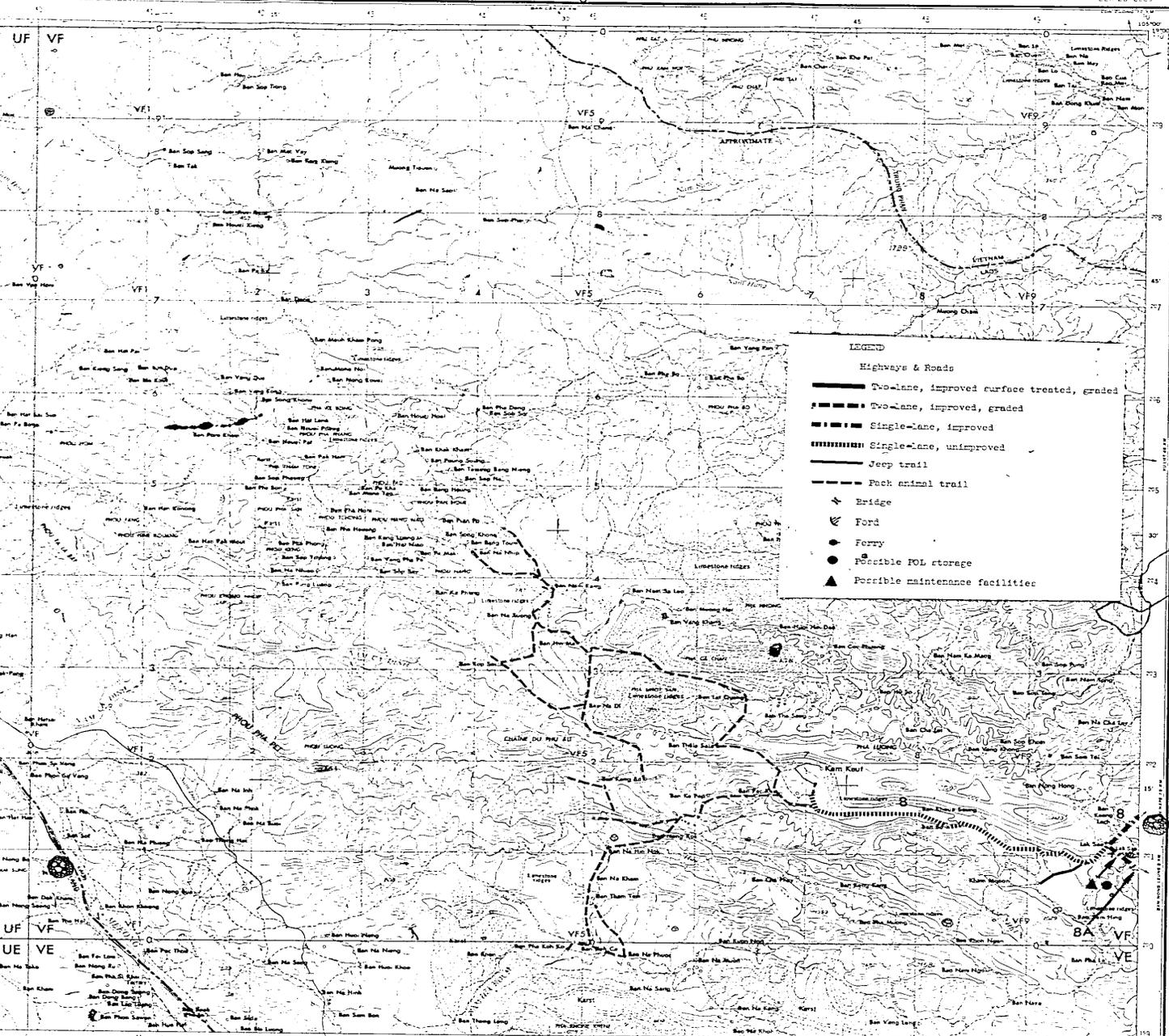
Contour interval 100 meters with supplementary contours at 50 meter intervals
Relief shown by form lines
Transverse Mercator projection

KAM KEUT

EDITION 2-AMS

NE 48.6
SEP 15 1959

SERIES 1:500
SHEET NE 48.6
EDITION 2-AMS



TOP SECRET-CHES

Scale 1:250,000

CONTOUR INTERVAL 100 METERS
RELIEF PARTIALLY SHOWN BY FORM LINES
TRANSVERSE MERCATOR PROJECTION

LOCATION DIAGRAM FOR NE 48.6

48.6	48.7	48.8	48.9	49.0
48.5	48.6	48.7	48.8	48.9
48.4	48.5	48.6	48.7	48.8
48.3	48.4	48.5	48.6	48.7
48.2	48.3	48.4	48.5	48.6

1:500,000 PRINTED BY ARMY SERVICE CORPS OF ENGINEERS

NE 48.6

Scale 1:250,000

CONTOUR INTERVAL 100 METERS

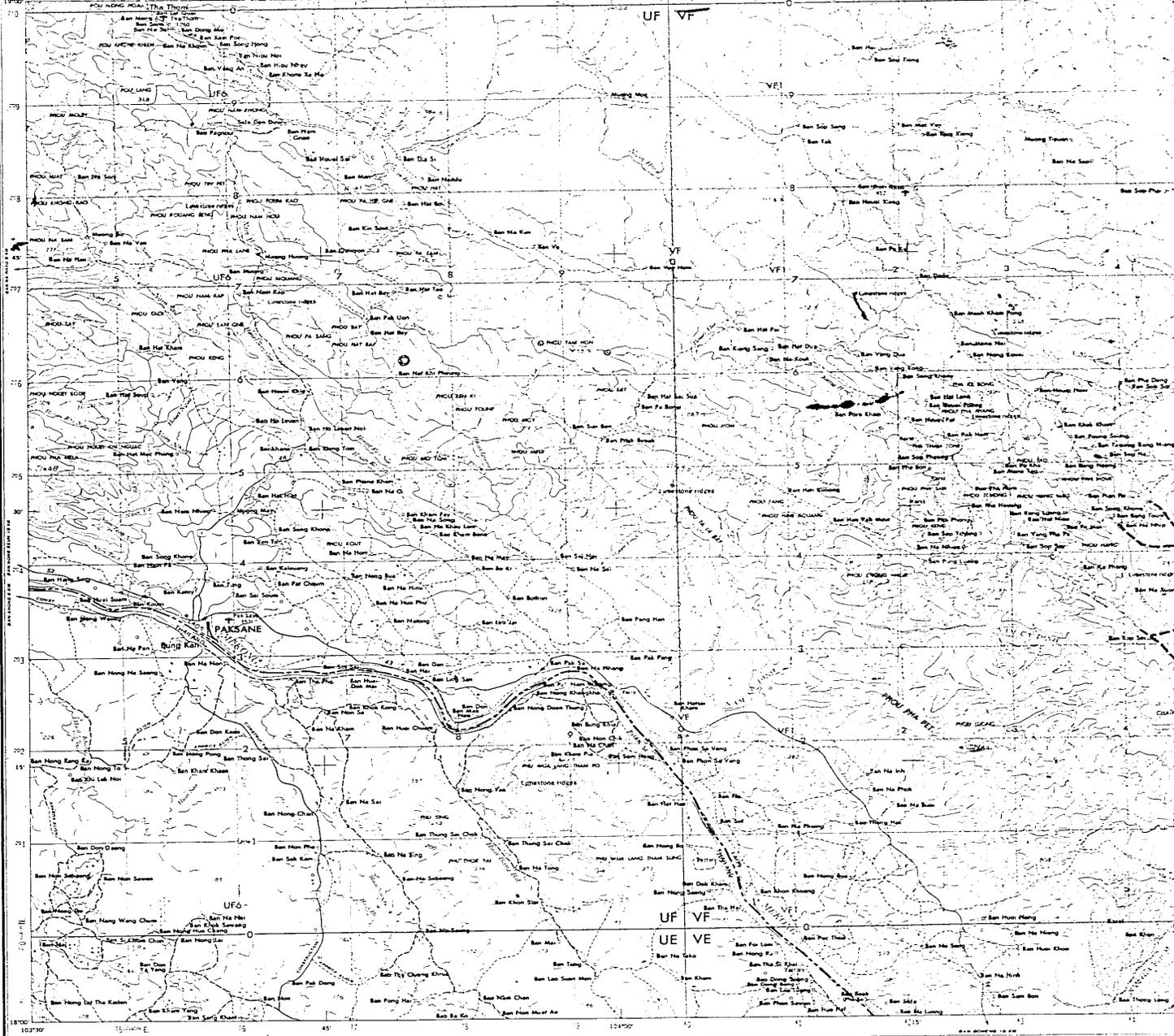
RELIEF PARTIALLY SHOWN BY FORM LINES

TRANSVERSE MERCATOR PROJECTION

THE METRIC MEASUREMENT FROM THIS MAP FOR LENGTHS OF THE MAP IS IN METERS. THE METRIC MEASUREMENT FROM THIS MAP FOR AREAS OF THE MAP IS IN SQUARE METERS. THE METRIC MEASUREMENT FROM THIS MAP FOR VOLUMES OF THE MAP IS IN CUBIC METERS. THE METRIC MEASUREMENT FROM THIS MAP FOR WEIGHTS OF THE MAP IS IN KILOGRAMS. THE METRIC MEASUREMENT FROM THIS MAP FOR TEMPERATURES OF THE MAP IS IN DEGREES CELSIUS. THE METRIC MEASUREMENT FROM THIS MAP FOR PRESSURES OF THE MAP IS IN KILOPASCALS. THE METRIC MEASUREMENT FROM THIS MAP FOR SPEEDS OF THE MAP IS IN METERS PER SECOND. THE METRIC MEASUREMENT FROM THIS MAP FOR ACCELERATIONS OF THE MAP IS IN METERS PER SECOND SQUARED. THE METRIC MEASUREMENT FROM THIS MAP FOR ANGLES OF THE MAP IS IN DEGREES. THE METRIC MEASUREMENT FROM THIS MAP FOR FREQUENCIES OF THE MAP IS IN HERTZ. THE METRIC MEASUREMENT FROM THIS MAP FOR PERIODS OF THE MAP IS IN SECONDS. THE METRIC MEASUREMENT FROM THIS MAP FOR MASS DENSITIES OF THE MAP IS IN KILOGRAMS PER CUBIC METER. THE METRIC MEASUREMENT FROM THIS MAP FOR LINEAR DENSITIES OF THE MAP IS IN KILOGRAMS PER METER. THE METRIC MEASUREMENT FROM THIS MAP FOR SURFACE DENSITIES OF THE MAP IS IN KILOGRAMS PER SQUARE METER. THE METRIC MEASUREMENT FROM THIS MAP FOR VOLUMETRIC DENSITIES OF THE MAP IS IN KILOGRAMS PER CUBIC METER. THE METRIC MEASUREMENT FROM THIS MAP FOR MASS FLOWS OF THE MAP IS IN KILOGRAMS PER SECOND. THE METRIC MEASUREMENT FROM THIS MAP FOR ENERGY FLOWS OF THE MAP IS IN KILOWATTS. THE METRIC MEASUREMENT FROM THIS MAP FOR POWER FLOWS OF THE MAP IS IN KILOWATTS. THE METRIC MEASUREMENT FROM THIS MAP FOR HEAT FLOWS OF THE MAP IS IN KILOWATTS. THE METRIC MEASUREMENT FROM THIS MAP FOR MASS FLOWS OF THE MAP IS IN KILOGRAMS PER SECOND. THE METRIC MEASUREMENT FROM THIS MAP FOR ENERGY FLOWS OF THE MAP IS IN KILOWATTS. THE METRIC MEASUREMENT FROM THIS MAP FOR POWER FLOWS OF THE MAP IS IN KILOWATTS. THE METRIC MEASUREMENT FROM THIS MAP FOR HEAT FLOWS OF THE MAP IS IN KILOWATTS.

KAM KEUT, LAOS; THAILAND, VIETNAM

TOP SECRET - CHESS



1:509
Edition 3-AM5 (last P)
Prepared by the Army I
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CIA/PID/IB-P-434/64

GLOSSARY

Table with 2 columns: Symbol and Description. Includes symbols for roads, rivers, and other geographical features.

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Scale 1:250,000

CONTOUR INTERVAL 100 METERS
RELIEF PARTIALLY SHOWN BY FORM LINES
TRANSVERSE MERCATOR PROJECTION

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